510(k) Summary K102285

This 510k summary of safety and effectiveness information is being submitted in accordance with the requirements of SMDA 1990 and 21 CFR 807.92

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Device Name and Classification

Trade name/Product Name: KrystalRAD (ATAL8) System

Classification name:

Stationary X-ray System

Common name

General purpose diagnostic X-ray System

Classification Panel:

Radiology

Product Code:

MQB

Regulation Number:

892.1680;

Date Prepared

December 15, 2010

Substantial Equivalence claimed to:

DRTech FLAATZ 750 (K080064)

Device Description

The KrystalRAD (ATAL8) System is a flat-panel type digital X-ray detector that captures projection radiographic images in digital format within seconds, eliminating the need for an entire X-ray film or an image plate as an image capture medium. The KrystalRAD (ATAL8) device differs from traditional Xray systems in that, instead of exposing a film and chemically processing it to create a hard copy image, a device called a Detector Panel is used to capture the image in electronic form.

Once the system captures a radiographic image and subsequently displaying and storing an image, radiologists or physicians can adjust the image electronically to optimize the view of the desired anatomy at a work station.

The system enables a user to duplicate images without having to take additional exposures so that the user can easily transmit a duplicate to the second physician who needs the duplicate image through the Andrew State network.

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Hardcopy images can also be made from digital printers, optimizing for the user's preference. The system can have DICOM-compliant output to ensure compatibility with existing imaging network infrastructure.

Indications for Use

The KrystalRAD (ATAL8) Digital X-Ray System is indicated for use in general radiographic images of human anatomy. It is intended to replace radiographic film/screen systems in all general-purpose diagnostic procedures (excluding fluoroscopic, angiographic, and mammographic applications).

Substantial Equivalence

The KrystalRAD (ATAL 8) is substantially equivalent to the commercially available DRTech FLAATZ 750 system cleared on January 23, 2010 via 510k K080064. Bench testing and electrical safety further substantiate equivalence to the predicate. The KrystalRAD (ATAL 8) utilizes OmniVision Software while the DRTech FLAATZ 750 system utilizes the proprietary ECOM OmniVue software to control the system and manage digital images collected.

Substantial Equivalence Table

510(k) Number		DRTech Corporation	KrystalRAD (ATAL8)
		(K080064)	
Indication for Use		The FLAATZ 750 is indicated for	Same as predicate.
		use in general radiographic images	· .
		of human anatomy. It is intended	
		to replace radiographic film/screen	
		systems in all general-purpose	
		diagnostic procedures (excluding	
		fluoroscopic, angiographic, and	
		mammographic applications).	
User Interface		Software Driven	Same as predicate.
		Touch Panel LCD +	•
		remote control unit +	
		remote console	
Software		ECOM OmniVue	OmniVision
			,
Design	Panel Shape	Square	Square Panel
	Detector Size	42.9 x 42.9 (cm)	43 x 43 cm
	Dimensions	482 x 482 x 35 (mm)	500 X 500 X 40mm
	$(W \times L \times H)$		
	Pixel Pitch	168 (um)	143 um
	Image Size	3072 x 3072 (pixels)	3072 x 3072 pixel
	Selenium Thickness	500 (μm)	no selenium
	Weight (Detector)	6.2 (kg)	12.7 kg
Materials		Amorphous Selenium	Amorphous Silicon (a-Si)
		(a-Se) Detector	
Performance DQE		48.5% @ 0.5 lp/mm	68%@ .5 lp/mm

510(k) Number		DRTech Corporation (K080064)	KrystalRAD (ATAL8)
	MTF	78% @ 3.5 lp/mm	525 @ 3.5 lp/mm
	Resolution	3.6 lp/mm	3.5 lp/mm
	Ghosting	<1% @ RQA5 Condition	<1% @ RA5 condition
Anatomical Sites		General Radiography	General Radiography
Energy Used and/or Delivered		The Control Box has the following Power Requirement: 100~240V~, 50/60 Hz, Max 2A, Single Phase	The Control Box has the following Power Requirement: 90V – 260V, 47/63 Hz, 3.15A, Single Phase

General Safety and Effectiveness Concerns

Electrical, mechanical safety and performance testing according to standard EN/IEC 60601-1, EN/IEC 60601-1-1, EN/IEC 60601-1-3, EN/IEC 60601-2-7, EN/IEC 60601-2-28 and EN/IEC 60601-2-32 was performed, and EMC testing was conducted in accordance with standard EN/IEC 60601-1-2(2001). All test results were satisfactory.

Conclusion

The results of all testing demonstrate that the KrystalRAD (ATAL8) does not raise any new significant issues of safety, effectiveness or performance of the device when compare to the existing predicate devices.



Food and Drug Administration 10903 New Hampshire Avenue Document Control Room -- WO66-G609 Silver Spring, MD 20993-0002

Medicatech USA % Mr. Daniel Kamm New Submission Correspondent Kamm & Associates 8870 Ravello Ct NAPLES FL 34114

JAN - 3 2010

Re: K102285

Trade/Device Name: KrystalRad (ATAL8) System

Regulation Number: 21 CFR 892.1680 Regulation Name: Stationary x-ray system

Regulatory Class: II Product Code: KPR

Dated: December 16, 2010 Received: December 21, 2010

Dear Mr. Kamm:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into class II (Special Controls), it may be subject to such additional controls. Existing major regulations affecting your device can be found in Title 21, Code of Federal Regulations (CFR), Parts 800 to 895. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Parts 801 and 809); medical device reporting (reporting of

medical device-related adverse events) (21 CFR 803); and good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820). This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Parts 801 and 809), please contact the Office of *In Vitro* Diagnostic Device Evaluation and Safety at (301) 796-5450. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

David G. Brown, Ph.D.

Acting Director

Division of Radiological Devices

Office of In Vitro Diagnostic Device

Evaluation and Safety

Center for Devices and Radiological Health

Enclosure



510(k) Number (if known): K102285 JAN - 3 2010 Device Name: KrystalRAD (ATAL8) System Indications For Use: The KrystalRAD (ATAL8) Digital X-Ray Systems is indicated for use in general radiographic images of human anatomy. It is intended to replace radiographic film/screen systems in all general-purpose diagnostic procedures (excluding fluoroscopic, angiographic, and mammographic applications). , ÷ . Over-The-Counter Use AND/OR Prescription Use ___X_ (21 CFR 801 Subpart C) (Part 21 CFR 801 Subpart D) (PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED) Concurrence of CDRH, Office of Device Evaluation (ODE)

> (Division Sign-Off) Division of Radiological Devices Office of In Vitro Diagnostic Device Evaluation and Safety